

EXAMPLES OF POTENTIAL INCINERATOR CONTROL OPTI

*Examples of Potential Incinerator Controls Provided for Incinerator Workgroup
Review and Discussion*

— Draft, 1/14/98 —

CONTROL OPTION	Potential for “Substantial” Emission Reduction											C
	PM*		Op	SO ₂	HCl	NOx	CO	Pb	Cd	Hg	D/F	
	f	t										
No control												Many incinerat their small size and/or absence control technol
Good combustion design and practice												For example, c rate and use of secondary char
Waste separation												A material sep: developed, bas waste. For exa plastics and me metal emission
Baghouse/ESP												ESPs tend to b incinerator app may preclude t an upstream sc generation is a
Thermal oxidizer/afterburner												Sometimes use Effectiveness v unknown. Ger

Cyclone/multiclone												Older technology applications.
Wet scrubber (low pressure or venturi) w/o water recycle												Acid gas formation; water recycles sulfur and chlorine may occur (the enhance the re-pollution)
Dry acid gas/PM scrubbing system, including baghouse (DSI, dry sorbent injection system)												Can be a highly efficient although cost may be high for smaller units; control can be improved; cost. Creates solid wastes.
Semi-dry acid gas/PM scrubbing system (spray dryer and baghouse)												Performs even better; costs are significant; injection for HCl; incremental cost and solid waste
Low-NOx burners, combustion chamber design, SNCR (ammonia injection)												Uncertain about incinerators. CO emissions.

*f = fine particulate matter; t = total particulate matter.